

Title (en)

JACKSCREW FOR USE IN CORRECTING MISALIGNMENTS OF TEETH

Title (de)

DEHNSCHRAUBE ZUM KORRIGIEREN VON FEHLSTELLUNGEN VON ZÄHNEN

Title (fr)

PLAQUE A VERIN POUR CORRIGER LE MAUVAIS ALIGNEMENT DE LA DENTITION

Publication

EP 0817596 A2 19980114 (DE)

Application

EP 96907462 A 19960314

Priority

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- EP 9601083 W 19960314

Abstract (en)

[origin: US2002001789A1] Jackscrew for use in correcting misalignments of teeth, comprising two main bodies (1,2), whose mutual separation can be adjusted by means of a spindle (3) provided with an operating part (5) and, continuous with that part, one or two screw-thread sections (7,11) the operating part (5) being rotatably mounted in one body (1) and one screw-thread section (11) being rotatably mounted in the other body (2), further comprising straight-line guide elements (22,23) which engage with both bodies (1,2) and guide them in a straight line while also preventing any relative rotation when the separation between the bodies is altered, and a threaded sleeve (13,14) on each of the screw-thread sections (7,11) of the spindle (3) the threaded sleeve (13,14) being guided inside a recess (6,10) in the respective body (1,2) and along the spindle (3) so as not to rotate relative to the body and transmitting its sliding motion to the bodies (1,2) via a spring (18,19) which determines the expansion force. The spring (18,19) is made from a shape-memory alloy, which is pseudo-elastic at temperatures prevailing inside the mouth.

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A61C 7/00

IPC 8 full level

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CPC (source: EP US)

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See references of WO 9628110A2

Cited by

DE19919329C2; DE102005053891B4; DE10045802C1; US6309213B1; WO0219939A1

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